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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/594,646	09/27/2006	Hai Zhang	CU-5139 RJS	1623
26530 7590 06/17/2009 LADAS & PARRY LLP			EXAMINER	
224 SOUTH MICHIGAN AVENUE			NGO, CHUONG A	
SUITE 1600 CHICAGO, II	. 60604		ART UNIT	PAPER NUMBER
			2617	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/594.646 ZHANG, HAI Office Action Summary Examiner Art Unit CHUONG A. NGO 2617 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed
- after SIX (6) MONTHS from the mailing date of this communication.

- Failu Any	pend or reply: a specined above, the maximum statutory period us apply and was replects (st.) (a) MN ITS from the finaling calle of this communication, ret to reply within the set or extended pend for reply will, by statute, cause the application to bocome ABANDONEC (SU.S.C.) \$133. If you have not been set or extended pend of reply will, by statute, cause the application to bocome ABANDONEC (SU.S.C.) \$133. If you have not reply received by the Office laster than there months after the making date of this communication, even if timely filled, may reduce any department of plant term objects. See 37 CFR 1.74(b),	
Status		
1)🛛	Responsive to communication(s) filed on <u>01 May 2009</u> .	
2a)⊠	This action is FINAL . 2b) ☐ This action is non-final.	
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is	
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.	
Disposit	ion of Claims	
4)🛛	Claim(s) 1-22 is/are pending in the application.	
	4a) Of the above claim(s) is/are withdrawn from consideration.	
5)	Claim(s) is/are allowed.	
6)⊠	Claim(s) <u>1-22</u> is/are rejected.	
7)	Claim(s) is/are objected to.	
8)□	Claim(s) are subject to restriction and/or election requirement.	
Applicat	ion Papers	
9)☐ The specification is objected to by the Examiner.		
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.		

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foleign priority under 55 0.5.6. § 119(a)-(d) of (f).		
a)∐ All	b) Some * c) None of:	
1.	Certified copies of the priority documents have been received.	
2 □	Certified copies of the priority documents have been received in Application No.	

3. Copies of the certified copies of the priority documents have been received in this National Stage

application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attaciii	ment	3

	Notice of References Cited (P10-892)
2)	Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (FTO/SE/08) Paper No(s)/Mail Date _

4)	Interview Summary (PTO-413
	Paper No(s)/Mail Date

 Notice of Informal Patent Application 6) Other:

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DETAILED ACTION

1. This action is in response to the communication filed on May 1, 2009.

Claims 1-22 are pending in this action. Current amended claims 2 and 20.

 Applicant's arguments with respect to claim 1-22 have been fully considered and for the examiner's response to the Applicant's argument or comments, see the detailed discussion in the response to argument section.

Response to Arguments

- The applicant argues the following:
- The combination of Alakoski and Fuchs does not teach the limitation of claim 1.
 - a. sending a message which carries MBMS bearer capabilities of a user equipment (UE) from the UE to a SGSN which the UE belongs to after passing authorization;
 - verifying whether the MBMS bearer capabilities of the UE are less than Required MBMS Bearer Capabilities, if the SGSN has the Required MBMS Bearer Capabilities;
 - c. rejecting a request for activating an MBMS Context if the MBMS bearer capabilities of the UE are less than the Required MBMS Bearer Capabilities, or creating an MBMS UE Context if the MBMS bearer capabilities of the UE are not less than the Required MBMS Bearer Capabilities;
 - 6. The examiner respectfully disagree the applicant argument of the following reasons:

The combination of Alakoski and Fuchs positively teach the limitation of the claim
 1.

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- a. Alakoski discloses sending a message which carries MBMS bearer capabilities of a user equipment (UE) from the UE to a SGSN which the UE belongs to after passing authorization (see paragraphs [0040], [0041] and Fig. 3, Alakoski discuses sending message as request message (i.e. receiving and responding) see Fig. 3, label 50, UE is sending MBMS content request to SGSN, label 54);
- b. Alakoski discloses verifying whether the MBMS bearer capabilities of the UE are less than Required MBMS Bearer Capabilities, if the SGSN has the Required MBMS Bearer Capabilities (see paragraphs [0041], [0042] and Fig. 3, label 54, Alakoski discuses verifying as check for MBMS bearer service, thereby verifying the mobile device is authorizing to receive MBMS bearer service" is know as "the MBMS bearer capabilities of UE are less/create than required MBMS bearer");
- c. Alakoski and Fuchs teach rejecting a request for activating an MBMS Context if the MBMS bearer capabilities of the UE are less than the Required MBMS Bearer Capabilities, or creating an MBMS UE Context if the MBMS bearer capabilities of the UE are not less than the Required MBMS Bearer Capabilities (see paragraphs [0014],[0042], Alakoski discuses authorized (i.e. decision of accept and/or reject), see

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paragraph [0083], Fuchs discuses reject as MGSN 56 rejects context requests it does not handle).

Therefore the combination of Alakoski and Fuchs clearly teach all the subject matters of the claimed invention

Claim Rejections - 35 USC § 103

- 8. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Claims 1, 7, 10-12, 14-19, 21, 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over US Patent Application Public 20040073928A1 (hereinafter Alakoski) in view of US Patent Application Public 20040266440A1 (hereinafter Fuchs).

Regarding claim 1, the limitation of "sending a message which carries MBMS bearer capabilities of a user equipment (UE) from the UE to a SGSN which the UE belongs to after passing authorization" is met by Alakoski teaches in (paragraphs [0040], [0041] and Fig. 3, Alakoski discuses sending message as request message (i.e. receiving and responding) see Fig. 3, label 50, UE is sending MBMS content request to SGSN, label 54);

the limitation of "verifying whether the MBMS bearer capabilities of the UE are less than Required MBMS Bearer Capabilities, if the SGSN has the Required

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MBMS Bearer Capabilities" is met by Alakoski teaches in (paragraphs [0041], [0042] and Fig. 3, label 54, Alakoski discuses verifying as check for MBMS bearer service, thereby verifying the mobile device is authorizing to receive MBMS bearer service" is know as "the MBMS bearer capabilities of UE are less/create than required MBMS bearer");

Although Alakoski disclose all the subject matters of the claimed invention concept except "rejecting a request for activating an MBMS Context". However, attention is directed to Fuchs, which teaches (paragraph [0083] MGSN 56 forwards to an associated GGSN 58 context requests it does not handle. Alternatively or additionally, MGSN 56 rejects context requests it does not handle. MSs 20 optionally resends the context request to a GGSN 58 responsive to the rejection from MGSN 56).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention was make to modify the Alakoski invention, and rejecting a request for activating an MBMS Context, as taught by Fuchs, thereby proving the techniques to delivery multimedia broadcasting over cellular networks particularly to multicast services over packet based cellular networks, as discussed by Fuchs, (see paragraph [00031-[0008]).

Regarding claim 2, the limitation of "creating a Packet Data Protocol (PDP) Context through interaction with a network and sending a joining message to the network via the SGSN which the UE belongs to" is met by Alakoski teaches in (paragraph [0034] The procedure regarding the MBMS authorization

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may be similar to the PCF-GGSN signaling flows in the Release 5 specifications.

For example, the GGSN requests authorization information from PCF for the

MBMS media flows carried by a PDP context);

the limitation of "receiving the joining message, implementing an authorization verification to the UE, and permitting the UE to activate an MBMS UE Context and send the message which carries the MBMS bearer capabilities of the UE to the SGSN which the UE belongs to if the UE passes authorization" is met by Alakoski teaches in (paragraph [0030] According to embodiments of the present invention, the enhanced PCF can provide QoS authorization and access control for an MBMS session. The enhanced PCF can perform this authorization based on the information provided by the BM-SC and operator policy stored in the enhanced PCF. According to embodiments of the present invention, the BM-SC may be connected to the enhanced PCF rather than to the GGSN).

Regarding claim 7 has limitations similar to those treated in the above rejection(s), and are met by the references as discussed claim 3 above.

Regarding claim 10 has limitations similar to those treated in the above rejection(s), and are met by the references as discussed claim 4 above.

Regarding claim 11 has limitations similar to those treated in the above rejection(s), and are met by the references as discussed claim 3 above.

Regarding claim 12 has limitations similar to those treated in the above rejection(s), and are met by the references as discussed claim 1 above.

Regarding claim 14 has limitations similar to those treated in the above rejection(s), and are met by the references as discussed claim 2 above.

Regarding claim 15 has limitations similar to those treated in the above rejection(s), and are met by the references as discussed claim 12 above.

Regarding claim 16 has limitations similar to those treated in the above rejection(s), and are met by the references as discussed claim 2 above.

Regarding claim 17 has limitations similar to those treated in the above rejection(s), and are met by the references as discussed claim 10 above.

Regarding claim 18 has limitations similar to those treated in the above rejection(s), and are met by the references as discussed claim 4 above.

Regarding claim 19 has limitations similar to those treated in the above rejection(s), and are met by the references as discussed claim 6 above.

Regarding claim 21 has limitations similar to those treated in the above rejection(s), and are met by the references as discussed claim 6 above.

Regarding claim 22 has limitations similar to those treated in the above rejection(s), and are met by the references as discussed claim 12 above.

10. Claims 3-6, 8, 9, 13, 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over US Patent Application Public 20040073928A1 (hereinafter Alakoski) in view of US Patent Application Public 20040266440A1 (hereinafter Fuchs) and further in view of Patent Application Public 20020054596A1 (hereinafter Sengodan).

Regarding claim 3, Alakoski and Fuchs do not teach "sending a rejection message which carries a rejection reason". However, attention is directed to Sengodan, which teaches ([0053] Another aspect of the present invention is that a discoverer is provided at the receiving end, the discoverer, upon receiving a request message, decrementing the Hop Count, modifying the hop-by-hop parameters, examining whether the Hop Count is zero, passing the request message down the multicast tree when the Hop Count is zero, examining the destination parameters, and suitably sending a confirm or rejection message to the discoverer). Also Alakoski and Fuchs do not teach "receiving the failure message which carries a failure reason". However, attention is directed to Sengodan, which teaches ([0069] FIG. 2 illustrates a Discoverer 210 and a Discoverer 220 from an OSI laver standpoint 200. As shown, the protocol according to the present invention is used at the application layer 230 rather than at the lower lavers 240. A Discoverer 210 is the entity that wishes to discover a certain resource, while the Discoverer 220 is the resource that is being discovered. A Request 250 is the message that is sent by the Discoverer 210 to the well-known multicast group. A Confirm 252 is the message that a Discoverer 220 unicasts to the Discoverer 210 upon receiving a Request message 250 indicating that the Discoverer 210 could use this resource. Finally, Reject 254 is the message that a Discoverer 220 unicasts to the Discoverer 210 upon receiving a Request message 250 indicating that the Discoverer 210 can not use this resource. See paragraph 79 and 82 for additional information).

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Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was make to modify the Alakoski invention by employing the teaching as taught by Fuchs to provide for setting a window for receiving the confirm message, wherein the discovery unit sets the timer after the first request message is sent, detects whether a confirm message is received before the timer expires and terminates the location of an endpoint when a confirm message is received prior to the expiration of the timer. Doing so would merely involve using known technique (the application sending a notification to the discovery unit for locating an endpoint application) to improve similar device (mobile stations and mobile phones) in the same way (sets the timer after the first request message is sent, detects whether a confirm message is received before the timer expires).

Regarding claim 4 has limitations similar to those treated in the above rejection(s), and are met by the references as discussed claim 3 above.

Regarding 5, the limitation of "sending a failure message which carries a failure reason to a GGSN" is met by Alakoski teaches in (paragraph [0042] The GGSN 56 may confirm authorization for the mobile device 50 and send a join response to the SGSN 54, signaling 107. The GGSN 56 may join an IP multicast for the IP multicast address to connect with a MBMS data source).

the limitation of "receiving the failure message and deciding whether to return back to an IP multicast access of a unicast mode" is met by Alakoski teaches in (paragraph [0043] The MBMS service management function may

return the service attributes (e.g., service area and, for each stream, target QoS and packet filter), signaling 206. The PCF function may pass a message indicating the decision and containing the service attributes to the GGSN, signaling 207. All necessary MBMS contexts may then be created by the SGSN and GGSN, signaling 208).

Regarding claim 6 has limitations similar to those treated in the above rejection(s), and are met by the references as discussed claim 4 above.

Regarding claim 8, 13, 20 "reject and verify messages" as modified by Alakoski and Fuchs for claim 1 discloses all the subject matter of the claimed invention except "receiving the rejection message and activating a timer". However, attention is directed to Sengodan, which teaches ([0047] Another aspect of the present invention is that a timer is provided for setting a window for receiving the confirm message, wherein the discovery unit sets the timer after the first request message is sent, detects whether a confirm message is received before the timer expires and terminates the location of an endpoint when a confirm message is received prior to the expiration of the timer and Paragraph [0053] Another aspect of the present invention is that a discoverer is provided at the receiving end, the discoverer, upon receiving a request message, decrementing the Hop Count, modifying the hop-by-hop parameters, examining whether the Hop Count is zero, passing the request message down the multicast

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tree when the Hop Count is zero, examining the destination parameters, and suitably sending a confirm or rejection message to the discoverer).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was make to modify the Alakoski invention by employing the teaching as taught by Fuchs to provide for setting a window for receiving the confirm message, wherein the discovery unit sets the timer after the first request message is sent, detects whether a confirm message is received before the timer expires and terminates the location of an endpoint when a confirm message is received prior to the expiration of the timer. Doing so would merely involve using known technique (the application sending a notification to the discovery unit for locating an endpoint application) to improve similar device (mobile stations and mobile phones) in the same way (sets the timer after the first request message is sent, detects whether a confirm message is received before the timer expires).

Regarding claim 9 has limitations similar to those treated in the above rejection(s), and are met by the references as discussed claim 8 above.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within

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TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to CHUONG A. NGO whose telephone number is 571-270-7264. The examiner can normally be reached on Monday through Thursday 6:00AM to 4:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nick Corsaro can be reached on 571-272-7876. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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/CHUONG A NGO/ Examiner, Art Unit 2617

/NICK CORSARO/ Supervisory Patent Examiner, Art Unit 2617